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DIRECTORATE OF
INTELLIGENCE

Imagery Analysis Service Notes

5 December 1969

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This publication highlights significant or timely intelligence items derived from photography.

The interpretations in this publication represent preliminary views which are subject to modification in the light of further information and more complete analysis.

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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

IMAGERY ANALYSIS SERVICE NOTES NO. 30/69

CONTENTS

USSR

Fast Construction Pace for SS-11 Silos at Pervomaysk

Construction of at least five of the 30 SS-11 silos at the Pervomaysk IRBM Complex is progressing at a faster than normal pace. Pervomaysk, about 100 nm north of Odessa in southwestern USSR, is one of the two Soviet MR/IRBM complexes where SS-11 silos have been seen under construction. The other is the Derazhnya MRBM Complex, about 150 nm northwest of Pervomaysk.

25X1D

Satellite photography shows that five SS-11 silos at Pervomaysk were in an advanced stage of construction in [redacted] only $2\frac{1}{2}$ to $4\frac{1}{2}$ months after they were begun. The silo headworks were complete and an earthen access road to each silo was under construction. If this construction pace is maintained, these silos, which are probably in the same group, will be externally complete in 6 to 8 months. By contrast, the SS-11 silos being built at deployed ICBM complexes normally take $6\frac{1}{2}$ to 7 months to reach the advanced stage of the five at Pervomaysk, and at that pace they require an average of about a year from start to external completion.

The remaining 25 SS-11 silos identified thus far at Pervomaysk, including 16 completed ones, have not been seen often enough for us to evaluate their construction pace. This is also true of the 26 SS-11 silos now identified at the Derazhnya MRBM Complex.

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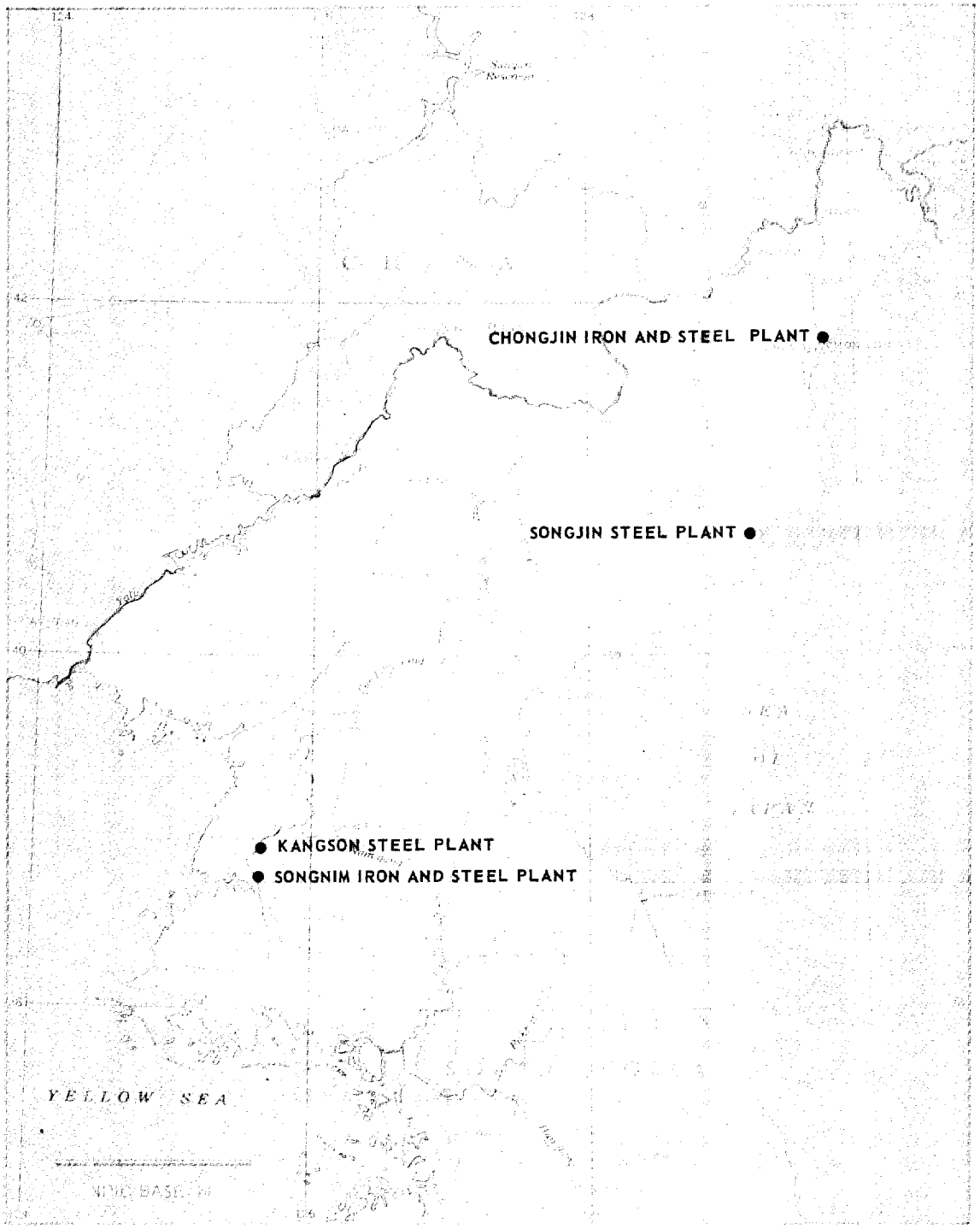

FIGURE 3. LOCATION OF NORTH KOREAN IRON AND STEEL PLANTS.

NORTH KOREA

Growth of the Iron and Steel Industry [redacted] 25X1D

Photographic analysis of North Korea's four known iron and steel plants shows that the industry has been steadily expanded and modernized since [redacted] Steel production facilities at the plants have been gradually upgraded since [redacted] by the addition of rolling mills, air separation plants, and electric furnaces. The number of operating blast furnaces for iron production has increased from four in [redacted] and six additional blast furnaces are under construction at present. 25X1D 25X1D 25X1D

The four plants -- Chongjin, Songjin, Kangson, and Songnim -- were heavily damaged during the Korean War and were rebuilt afterwards. They were in operation when first seen on photography in the [redacted] period and have been operating whenever observed since then. 25X1D

Only the Songnim plant is a fully integrated iron and steel plant with facilities for producing iron, steel, and rolled finished steel products. The plants at Songjin and Kangson produce steel and rolled products but not iron, whereas Chongjin produces iron and steel but not rolled products.

The following major production facilities were observed at the four plants on the latest coverage, acquired in the period [redacted] 25X1D

PLANT	MAJOR PRODUCTION FACILITIES	
	IRON	STEEL
CHONGJIN IRON AND STEEL PLANT	7 BLAST FURNACES (INCLUDING 2 UNDER CONSTRUCTION)	1 SIDE-BLOWN CONVERTER SHOP 1 AIR SEPARATION PLANT
SONGJIN STEEL PLANT		1 PROBABLE ELECTRIC FURNACE BUILDING 1 OPEN-HEARTH FURNACE BUILDING 1 AIR SEPARATION PLANT 2 ROLLING MILLS
KANGSON STEEL PLANT		2 ELECTRIC FURNACE BUILDINGS (1 NOT YET IN OPERATION) 1 AIR SEPARATION PLANT 2 ROLLING MILLS 1 FINISHING MILL
SONGNIM IRON AND STEEL PLANT	9 BLAST FURNACES (INCLUDING 4 UNDER CONSTRUCTION) POSSIBLE IRON ORE SINTERING PLANT	1 PROBABLE OPEN-HEARTH FURNACE FACILITY 1 ROLLING FACILITY

For a detailed description of these four plants, see the forthcoming IAS Basic Report RCS-13/0001/70.

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